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- (54) NANO-FIBER COMPOUNDED SOLUTION, EMULSION AND GELLING MATERIAL AND METHOD FOR PRODUCTION THEREOF, AND NANO-FIBER SYNTHETIC PAPER AND METHOD FOR PRODUCTION THEREOF
- (57) This invention provides compound solutions, emulsions and gels excellent in homogeneous dispersibility and long-term dispersion stability and also excellent in the properties as cosmetics, using disarranged nanofibers not limited in either form or polymer, widely applicable and small in the irregularity of single fiber diameter. This invention also provides a method for producing them. Furthermore, this invention provides synthetic papers composed of fibers, small in pore area and uniform in pore size, using disarranged nanofibers, and also provides a method for producing them.

This invention provides compound solutions, emulsions, gels and synthetic papers containing disarranged nanofibers of 1 to 500 nm in number average diameter and 60% or more in the sum Pa of single fiber ratios.

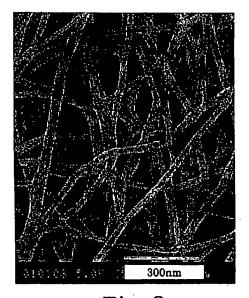


Fig. 3

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#### INTERNATIONAL SEARCH REPORT International application No. PCT/JP2005/002310 CLASSIFICATION OF SUBJECT MATTER D21H13/10, A61K7/00, 7/42, 7/48, D04H1/42, D21H15/02 Int.Cl7 According to International Patent Classification (IPC) or to both national classification and IPC Minimum documentation searched (classification system followed by classification symbols) Int.Cl D21H13/10, A61K7/00, 7/42, 7/48, D04H1/42, D21H15/02 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Jitsuyo Shinan Koho 1922-1996 Jitsuyo Shinan Toroku Koho 1996-2005 Kokai Jitsuyo Shinan Koho 1971-2005 Toroku Jitsuyo Shinan Koho 1994-2005 Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) C. DOCUMENTS CONSIDERED TO BE RELEVANT Category\* Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. Х JP 2003-109569 A (Japan Vilene Co., Ltd.), 1-10,19-28, 11 April, 2003 (11.04.03), Par. Nos. [0010], [0012] 37-46,58-83 Y 11-18,29-36, (Family: none) 47-57 JP 2003-45752 A (Japan Vilene Co., Ltd.), X 1-10,19-28, 14 February, 2003 (14.02.03), 37-46,58-83 Par. Nos. [0008], [0010] γ 11-18,29-36, (Family: none) 47-57 X JP 2003-239170 A (Japan Vilene Co., Ltd.), 1-10,19-28, 27 August, 2003 (27.08.03), 37-46,58-83 Par. Nos. [0019], [0020] Y 11-18,29-36, (Family: none) 47-57 Further documents are listed in the continuation of Box C. See patent family annex. Special categories of cited documents later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document defining the general state of the art which is not considered to be of particular relevance earlier application or patent but published on or after the international document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone filing date document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document referring to an oral disclosure, use, exhibition or other mea document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 28 April, 2005 (28.04.05) 17 May, 2005 (17.05.05) Name and mailing address of the ISA/ Authorized officer

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